

WE CLAIM:

1. An electrical lamp comprising:

an illumination socket mounting an illumination bulb, chosen from the group consisting essentially of incandescent bulbs, fluorescent bulbs and halogen bulbs, which bulb emits illumination light when supplied with electrical power;

a plurality of light emitting diodes which emit light of different colors when supplied with electrical power;

a base in which the illumination socket and the light emitting diodes are positioned in proximity to each other;

a first electrical circuit connected to supply electrical power to an illumination bulb mounted in the illumination socket for causing the illumination bulb to emit illuminating light;

a second electrical circuit connected to supply electrical power to the light emitting diodes for causing the light emitting diodes to emit light of different colors; and

switching means for selectively switching the application of electrical power between the first electrical circuit and the second electrical circuit.

2. The electrical lamp according to claim 1, wherein the first electrical circuit includes a dimmer to adjust the intensity of the illumination light.

3. The electrical lamp according to claim 1, wherein the second electrical circuit includes a dimmer configured for selective adjustment of the intensities of the light of different colors.

4. The electrical lamp according to claim 1, further including a programmable circuit connected to the second electrical circuit and configured to adjust the intensities of the light of different colors according to a predetermined program.

5. A light bulb comprising:

an illumination source, chosen from the group consisting essentially of incandescent, fluorescent and halogen light emitting devices, which source emits illumination light;

a plurality of light emitting diodes which emit light of different colors;

a base on which the illumination source and the plurality of light emitting diodes are mounted in proximity to each other, the base being configured to mount in a light bulb socket; a first electrical circuit connected to supply electrical power to the illumination source; a second electrical circuit connected to supply electrical power to the light emitting diodes; and a switch for selectively switching the application of electrical power between the first electrical circuit and the second electrical circuit.

6. The light bulb according to claim 5, wherein the first electrical circuit includes a dimmer to adjust the intensity of the illumination light.

7. The light bulb according to claim 5, wherein the second electrical circuit includes a dimmer configured for selective adjustment of the intensities of the light of different colors.

8. The light bulb according to claim 5, further including a programmable circuit connected to the second electrical circuit and configured to adjust the intensities of the light of different colors according to a predetermined program.

9. The light bulb according to claim 5, further including a sensor for sensing at least one of temperature, scent, motion, and sound, and a programmable circuit connected to the second electrical circuit,

wherein the programmable circuit adjusts at least one of the intensities and colors of the light of different colors in response to a signal from the sensor.

10. The light bulb according to claim 5, wherein the illumination source is releasably mounted in the light bulb.

11. A light bulb comprising:

a base configured to mate with a light bulb socket;
at least one compact fluorescent bulb mounted on the base;

a plurality of light emitting diodes mounted on the base, which emit light of different colors;

a control circuit which supplies power from the light socket, when the base is mounted therein, to the at least one fluorescent bulb and the plurality of light emitting diodes; and

a translucent housing mounted on the base and containing the at least one fluorescent bulb and the plurality of light emitting diodes.

12. The bulb according to claim 11, comprising a plurality of compact fluorescent bulbs.

13. The bulb according to claim 11, wherein the at least one fluorescent bulb is about 2 to about 21 inches in length, the fluorescent bulb being folded back on itself a plurality of times so as to form a plurality of lengths extending up from the base within the housing.

14. The bulb according to claim 12, wherein there are a plurality of light emitting diodes positioned around the fluorescent bulbs, in a circumferential direction.

15. The bulb according to claim 14, wherein adjacent light emitting diodes, in a circumferential direction, are different color light emitting diodes.

16. The bulb according to claim 13, wherein there are a plurality of light emitting diodes positioned around the at least one of fluorescent bulb.

17. The bulb according to claim 16, wherein adjacent light emitting diodes, in a circumferential direction, are different color light emitting diodes.

18. The bulb according to claim 11, wherein the plurality of light emitting diodes are positioned on the base so as to surround the at least one fluorescent bulb.

19. The bulb according to claim 18, wherein adjacent light emitting diodes, in a circumferential direction, are different color light emitting diodes.

20. The bulb according to claim 11, wherein the at least one fluorescent bulb and the plurality of light emitting diodes are powered from a common circuit board.

21. The bulb according to claim 11, wherein the at least one fluorescent bulb emits light within the range of about 160 to about 4200 lumens.

22. The bulb according to claim 21, wherein at least one fluorescent bulb emits light within the range of about 240 to about 2625 lumens.

23. The bulb according to claim 22, wherein the at least one fluorescent bulb emits light within the range of about 320 to about 2100 lumens.

24. The bulb according to claim 11, further comprising a user interface connected to the control circuit, wherein the user interface allows for programming of the color of the light to be emitted from the housing by the plurality of light emitting diodes.

25. The bulb according to claim 11, further comprising a processor for controlling the control circuit to control the plurality of light emitting diodes to produce a at least one predetermined presentation of light emission which varies, during the presentation, at least one of the color and intensity of light emitted from the housing by the plurality of light emitting diodes.

26. The bulb according to claim 25, further comprising a memory storing one or more programs defining the at least one predetermined presentation.

27. The bulb according to claim 26, further comprising a user interface that allows a user to select from the at least one predetermined presentation.

28. The bulb according to claim 25, further comprising a user interface that allows a user to perform at least one of:

- i) activating one or more of a plurality of predetermined presentations; and

ii) selecting one or more colors of light to be emitted from the housing by the plurality of light emitting diodes.

29. The bulb according to claim 25, wherein the processor is controlled remotely by a user so as to perform at least one of:

- i) activating one or more of a plurality of predetermined presentations; and
- ii) selecting one or more colors of light to be emitted from the housing by the plurality of light emitting diodes.

30. The bulb according to claim 25, wherein the bulb further comprises a sensor for sensing power activation so as to enable the user to remotely control the processor by toggling a power switch that controls the power through the light socket on which the bulb is mounted.

31. The bulb according to claim 29, further comprising a sensor that enables the processor to be remotely controlled by one of an infrared signal and a radio signal.

32. A light bulb comprising:

- a base configured to mate with a light bulb socket;
- a light emitting device mounted on and receiving power from the base, the light emitting device being selected from the group consisting essentially of halogen, incandescent, fluorescent, and low vapor mercury light emitting devices;
- a plurality of light emitting diodes mounted on and receiving power from the base, the plurality of light emitting diodes emitting light of different colors;
- a programmable processor that controls the activation, color and intensity of the light emitted from the plurality of the light emitting diodes; and
- a translucent housing mounted on the base and containing the light emitting device and the plurality of light emitting diodes.

33. The bulb according to claim 32, wherein the light emitting device emits light in the range of about 320 to about 2100 lumens.

34. The bulb according to claim 32, wherein adjacent light emitting diodes mounted on the base, in a circumferential direction, are different color light emitting diodes.

35. The bulb according to claim 32, further comprising a memory storing programs for instructing the processor to perform a plurality of predetermined presentations of light emission each of which varies at least one of the color and intensity of light emitted from the housing by the plurality of light emitting diodes.

36. The bulb according to claim 35, wherein the programs are activated remotely by a user.

37. A light bulb comprising:

a base configured to mate with a light bulb socket;

a light emitting device mounted on and receiving power from the base, the light emitting device being selected from the group consisting essentially of halogen, incandescent, fluorescent, and low vapor mercury light emitting devices;

a plurality of light emitting diodes mounted on and receiving power from the base, the plurality of light emitting diodes emitting light of different colors;

a user interface that controls the activation, color and intensity of the light emitted from the plurality of the light emitting diodes; and

a translucent housing mounted on the base and containing the light emitting device and the plurality of light emitting diodes.

38. The bulb according to claim 37, wherein the user interface controls a plurality of predetermined presentations of light emission stored in the bulb, each of which varies at least one of the color and intensity of light emitted from the housing by the plurality of light emitting diodes.